Lab Report 1

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DATABASE ADMINSTRATION

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**Topic Discussed**

* Instance Management
* Initialization Parameter
* Instance
* Startup
* No mount
* Mount
* Open
* P file
* force
* Shutdown
* Normal
* Immediate
* Transactional
* Abort

The following are the commands we run:

**Shutdown immediate;**

* Closes all Active transaction

**Startup nomount;**

* Puts it in a nomount state. During the nomount stage, Oracle first opens and reads the initialization parameter file (init.ora) to see how the database is configured.

**Startup mount;**

* When the startup command enters the mount stage, it opens and reads the control file. In the mount stage, Oracle determines the location of the datafiles, but does not yet open them. We can’t mount while the database is still running.

**Alter database mount;**

* If you have already started the database instance with the startup nomount command, you might change it from the nomount to mount startup stage using the alter database command.

**Alter database open;**

* When Oracle opens the database, it accesses all of the datafiles associated with the database. Once it has accessed the database datafiles, Oracle makes sure that all of the database datafiles are consistent.
* **First comes Nomount then mount then opening the database.**

**Startup force;**

* It force opens the database. The database will start as a new instance. Nothing done before this will be there.

**Show parameter;**

* Your output may vary depending on the version and configuration of the Oracle Database server to which you are connected. It lists all the parameter we are working with.

**Show parameter sga; (System Global Area)**

* Lists out the parameters of sga.
* **Undo –** Consists of the data that have been affected. (Consistency)
* **Redo –** Consists of the data that affected the previous data.

**Alter system set undo\_retention = 1800 scope = both;**

* Sets the amount of time that undo data is stored to 1800 sec. and this change will be done on both spfile and memory.

**Alter system set sga\_max\_size = 10G scope = spfile;**

* Sets the maximum system global area size to 10G and this change will only be done on the spfile.

**Explain about Error 00844 and Error 00851**

ORA-00844: Parameter not taking MEMORY\_TARGET into account

ORA-00851: SGA\_MAX\_SIZE 9445460234 cannot be set to more than MEMORY\_TARGET 4547687648.

**Cause:**The SGA\_MAX\_SIZE parameter is larger than MEMORY\_TARGET parameter.

May be you forgot to set the MEMORY\_TARGET in the spfile after setting SGA\_MAX\_SIZE parameter or already set the MEMORY\_TARGET parameter but forgot to set SGA\_MAX\_SIZE to 0.

**Solution:** After being connected with the database use the following commands:

**Sql > create pfile from spfile;**

**Sql > exit;**

Now, open the dbs directory which contain the newly created pfile and remove following lines from pfile:

* Sga\_max\_size = 2238535456
* Sga\_target = 0

**Sql > create spfile from pfile;**

**Sql > startup;**